Performance Data Sheet

AWG5524EVA

General Information

Model	AWG5524EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	5380	4690					
	Watts	902	915					
	Amps	4.25	4.27					
	Lb/h	69.0	63.1					
-10	Btu/h	6660	5900	5150				
	Watts	973	991	1000				
	Amps	4.61	4.66	4.68				
	Lb/h	85.1	78.8	72.1				
-5	Btu/h	8030	7200	6370	5550			
	Watts	1040	1060	1080	1090			
	Amps	4.94	5.02	5.08	5.11			
	Lb/h	102	95.3	88.1	80.4			
0	Btu/h	9500	8580	7680	6770	5870		
	Watts	1100	1130	1160	1180	1180		
	Amps	5.23	5.35	5.46	5.53	5.56		
	Lb/h	120	113	105	97.0	88.2		
5	Btu/h	11100	10100	9080	8090	7100		
	Watts	1150	1200	1230	1260	1280		
	Amps	5.48	5.64	5.80	5.93	6.01		
	Lb/h	139	132	123	115	106		
10	Btu/h	12800	11700	10600	9520	8430	7350	6260
	Watts	1200	1250	1300	1340	1370	1380	1370
	Amps	5.71	5.91	6.11	6.30	6.44	6.52	6.50
	Lb/h	160	152	143	134	124	114	102
15	Btu/h	14600	13400	12200	11100	9880	8700	7510
	Watts	1250	1310	1370	1420	1460	1490	1490
	Amps	5.89	6.14	6.40	6.64	6.85	7.00	7.06
	Lb/h	182	173	164	155	144	133	121
20	Btu/h	16600	15300	14000	12700	11500	10200	8870
	Watts	1280	1350	1420	1490	1550	1590	1610
	Amps	6.04	6.34	6.65	6.96	7.23	7.45	7.59
	Lb/h	205	196	187	177	166	155	142

25	Btu/h	18800	17400	16000	14600	13200	11800	10400
	Watts	1310	1390	1470	1550	1630	1690	1730
	Amps	6.16	6.51	6.88	7.24	7.59	7.89	8.11
	Lb/h	230	221	211	201	190	178	165
30	Btu/h	21100	19600	18100	16600	15000	13500	12000
	Watts	1330	1420	1520	1610	1700	1780	1840
	Amps	6.24	6.64	7.07	7.50	7.92	8.30	8.61
	Lb/h	257	247	237	227	215	203	189
35	Btu/h	23600	22000	20300	18700	17100	15400	13800
	Watts	1340	1440	1560	1670	1770	1870	1950
	Amps	6.28	6.74	7.23	7.74	8.23	8.69	9.09
	Lb/h	286	276	266	255	243	230	216
40	Btu/h	26300	24600	22800	21100	19300	17500	15800
	Watts	1340	1460	1590	1710	1840	1950	2050
	Amps	6.29	6.80	7.36	7.94	8.51	9.06	9.55
	Lb/h	317	307	296	285	272	259	245
45	Btu/h	29300	27400	25500	23600	21700	19800	17900
	Watts	1330	1460	1610	1750	1890	2030	2150
	Amps	6.25	6.83	7.46	8.11	8.77	9.40	9.99
	Lb/h	351	340	329	317	304	291	276
50	Btu/h	32400	30400	28400	26300	24300	22300	20200
	Watts	1310	1460	1620	1780	1950	2100	2250
	Amps	6.18	6.83	7.53	8.26	9.00	9.72	10.4
	Lb/h	386	375	364	352	339	325	310
55	Btu/h	35900	33700	31500	29300	27100	25000	22800
	Watts	1280	1450	1620	1810	1990	2170	2330
	Amps	6.08	6.79	7.56	8.37	9.20	10.0	10.8
	Lb/h	425	413	402	389	376	362	346

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.746155E+04	1.164099E+03	6.815224E+00	1.844740E+02
C2	4.354200E+02	8.709238E+00	3.954955E-02	4.342958E+00
C3	-1.107233E+02	-9.900467E+00	-7.671631E-02	-1.076384E+00
C4	3.157215E+00	-2.399407E-01	-1.140851E-03	2.088796E-02
C5	-1.614469E+00	-7.284560E-02	-3.219692E-04	-7.144455E-03
C6	1.827378E-01	1.740085E-01	1.028559E-03	5.610381E-03
C7	1.716214E-02	-6.931092E-04	-4.571286E-07	1.864013E-04
C8	-1.144554E-02	1.567205E-03	5.624388E-06	2.693046E-05
C9	-3.437165E-04	1.366891E-03	6.413663E-06	-9.911393E-06
C10	-5.406809E-04	-7.540277E-04	-3.972366E-06	-2.773475E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AWG5524EVA

General Information

Model	AWG5524EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	5870	4970					
	Watts	1150	1160					
	Amps	4.44	4.42					
	Lb/h	75.5	67.0					
-10	Btu/h	7460	6500	5570				
	Watts	1240	1260	1260				
	Amps	4.82	4.83	4.82				
	Lb/h	95.4	86.8	77.9				
-5	Btu/h	9160	8120	7120	6130			
	Watts	1320	1350	1370	1370			
	Amps	5.16	5.21	5.24	5.23			
	Lb/h	117	108	98.5	88.8			
0	Btu/h	11000	9860	8780	7710	6630		
	Watts	1400	1440	1470	1480	1480		
	Amps	5.47	5.56	5.63	5.68	5.68		
	Lb/h	139	130	120	110	99.5		
5	Btu/h	12900	11700	10600	9400	8230		
	Watts	1480	1520	1560	1590	1600		
	Amps	5.74	5.88	5.99	6.09	6.14		
	Lb/h	163	153	143	133	122		
10	Btu/h	15000	13700	12500	11200	9950	8650	7310
	Watts	1550	1600	1650	1690	1720	1730	1730
	Amps	5.99	6.16	6.33	6.47	6.58	6.65	6.66
	Lb/h	188	178	168	158	146	134	119
15	Btu/h	17300	15900	14500	13200	11800	10400	8950
	Watts	1610	1670	1730	1780	1830	1850	1870
	Amps	6.20	6.42	6.63	6.83	7.00	7.12	7.20
	Lb/h	215	205	195	184	172	159	144
20	Btu/h	19800	18200	16700	15300	13800	12300	10700
	Watts	1660	1740	1810	1870	1930	1980	2010
	Amps	6.39	6.65	6.91	7.16	7.38	7.57	7.72
	Lb/h	244	233	223	212	200	187	172

25	Btu/h	22400	20800	19100	17500	15900	14300	12600
	Watts	1710	1790	1880	1960	2030	2090	2140
	Amps	6.54	6.85	7.16	7.46	7.75	8.00	8.21
	Lb/h	275	264	253	242	229	216	201
30	Btu/h	25300	23500	21700	20000	18300	16500	14700
	Watts	1750	1840	1940	2040	2120	2200	2270
	Amps	6.67	7.02	7.38	7.74	8.09	8.41	8.69
	Lb/h	308	297	286	274	261	247	232
35	Btu/h	28400	26400	24500	22600	20800	18900	16900
	Watts	1770	1880	2000	2110	2210	2310	2390
	Amps	6.78	7.17	7.59	8.00	8.41	8.79	9.14
	Lb/h	344	332	320	308	295	281	265
40	Btu/h	31800	29600	27500	25500	23500	21400	19300
	Watts	1790	1920	2040	2170	2290	2410	2510
	Amps	6.85	7.30	7.77	8.24	8.70	9.15	9.58
	Lb/h	382	370	358	345	332	317	301
45	Btu/h	35300	33000	30800	28600	26400	24200	22000
	Watts	1800	1940	2080	2220	2370	2500	2630
	Amps	6.91	7.40	7.92	8.45	8.98	9.50	9.99
	Lb/h	423	410	397	384	370	356	339
50	Btu/h	39200	36700	34300	31900	29600	27200	24800
	Watts	1810	1960	2110	2270	2430	2590	2730
	Amps	6.94	7.49	8.06	8.65	9.24	9.83	10.4
	Lb/h	467	453	440	426	412	397	380
55	Btu/h	43400	40700	38100	35500	33000	30400	27800
	Watts	1800	1960	2130	2310	2490	2660	2830
	Amps	6.95	7.55	8.18	8.83	9.49	10.1	10.8
	Lb/h	514	499	486	472	457	441	424

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.424721E+04	1.193087E+03	5.513872E+00	2.625952E+02
C2	5.381982E+02	1.139852E+01	2.698071E-02	5.323514E+00
C3	-2.434879E+02	-1.757227E+00	-2.326901E-02	-2.641350E+00
C4	4.291226E+00	-2.151804E-01	-8.170489E-04	3.280655E-02
C5	-2.221717E+00	-5.672930E-02	2.522670E-05	-1.159498E-02
C6	1.300106E+00	9.516494E-02	4.408815E-04	1.967765E-02
C7	1.964036E-02	-5.993746E-04	1.514375E-06	2.095644E-04
C8	-1.914943E-02	1.194652E-03	2.044338E-06	-5.244660E-05
C9	2.669152E-03	1.350651E-03	4.589445E-06	3.288121E-05
C10	-4.121854E-03	-5.030976E-04	-1.963325E-06	-7.496082E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature